

## WHAT IS CLAIMED IS:

### 1. An electric coffee grinder comprising:

a body having a compartment disposed therein and a through hole disposed on a wall surface thereof;

5        a holding seat positioned in said compartment of said body, and having a cover plate disposed at an upper end thereof and a passage disposed therein;

      a motor seat positioned in said compartment of said body and below said holding seat, said motor seat having a passage disposed  
10        therein at a position aligned with said passage of said holding seat, a through hole disposed on a wall surface thereof at a position aligned with said through hole of said body, a motor chamber disposed therein, at least one battery chamber disposed therein, a recessed chamber disposed in a lower portion thereof, and a positioning seat disposed at a  
15        bottom thereof, said motor chamber having a motor disposed therein and provided with an axle extending into said recessed chamber and a driving gear coupled to said axle, said at least one battery chamber each having at least one battery disposed therein, said recessed chamber having a reducing gear assembly disposed therein and meshed with said driving  
20        gear, said positioning seat having a hole disposed thereon for being extended through by a gear of said reducing gear assembly, a passage disposed therein at a position aligned with said passage of said motor seat, and a button switch disposed thereon, said button switch having a press button disposed thereon and capable of being protruded out of said  
25        through holes of said motor seat and said body;

      a fixing seat disposed at a bottom of said compartment of said body and below said positioning seat, and having a hole disposed thereon,

a compartment disposed therein, and an opening disposed thereon at a position aligned with said passages of said holding seat, said motor seat as well as said positioning seat;

a base secured below said body, and having a supporting recess  
5 disposed thereon, a recessed chamber disposed in said supporting recess, a holder disposed at a bottom of said recessed chamber, a plurality of through holes disposed at said bottom of said recessed chamber, a fixing disk secured above said supporting recess, a grinding seat secured in said fixing disk, a grinding member received in said  
10 grinding seat, a spindle, a journal, an adjusting knob and a spring, said holder provided with a threaded hole disposed thereon, said fixing disk provided with an aperture disposed thereon, said grinding seat having a plurality of internal grinding teeth disposed on an inner wall surface thereof, said grinding member having a bore disposed therein and a  
15 plurality of external grinding teeth disposed on an outer wall surface thereof, said spindle capable of extending through said bore of said grinding member, said journal capable of extending through said hole of said fixing seat and having an upper portion provided with a driven gear and a lower portion capable of being inserted by an upper end of said  
20 spindle, said adjusting knob capable of being sleeved on by said spring and screwed with said threaded hole of said holder;

a feeding basket capable of being assembled above said body and having an opening disposed at a bottom thereof;

an upper cover capable of being covered on an upper end of said  
25 feeding basket; and,

whereby when said press button of the body is depressed by a user, said button switch will be actuated by said press button to form an open electric circuit to start said motor to rotate said reducing gear

assembly to turn said journal to swivel said spindle to turn said grinding member, thereby enabling said electric coffee grinder to proceed with grinding movements, which is quick in grinding, compact in dimension and convenient in transportation for being used outside.

5           2. The electric coffee grinder as claimed in claim 1, wherein a receiving basket is capable of being assembled below said base for being received with ground coffee powder therein.

          3. The electric coffee grinder as claimed in claim 1, wherein said compartment of said body has an annular groove disposed near an upper  
10       end thereof; wherein said holding seat has a flanged ring disposed near an upper end of an outer wall surface thereof for being engaged in said annular groove of said compartment of said body.

          4. The electric coffee grinder as claimed in claim 1, wherein said receiving basket has an engagement edge protruded upwardly at an  
15       upper end thereof for being engaged with a lower end of said base.

          5. The electric coffee grinder as claimed in claim 1, wherein said receiving basket has an engagement edge protruded upwardly at an upper end thereof for being covered by said upper cover.

          6. The electric coffee grinder as claimed in claim 1, wherein said  
20       body and said base are capable of being welded together by an ultrasonic welding way.